

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) An apparatus for generating an angular sweep of a directed propagation of electromagnetic radiation, comprising:

a first reflector adapted to rotationally oscillate over a first angular range of movement and then over a second angular range of movement directionally opposite the first angular range of movement; and

a first and a second fixed reflector to reflect the directed propagation of electromagnetic radiation incident upon and reflected by the first reflector onto the fixed reflectors and back to the first reflector;

the first fixed reflector is contiguous with the second fixed reflector and the first fixed reflector is angled with respect to the second fixed reflector;

wherein the first angular range of movement of the first reflector creates an increasing sweep of the directed propagation of electromagnetic radiation with each reflection from the first reflector.

2.-3. (Cancelled)

4. (Previously Presented) The apparatus of claim 1, wherein the directed propagation of electromagnetic radiation is selected from a group comprising a laser beam, microwave energy, visible light, non-visible light, infra-red radiation, radar waves, radio waves and combinations thereof.

5. (Previously Presented) The apparatus of claim 1 wherein the first reflector and the at least two fixed reflectors are mirrors.

6. (Original) The apparatus of claim 5, wherein the mirrors are planar.

7. (Original) The apparatus of claim 1, wherein a means for oscillation drives the movement of the first reflector.

8. (Original) The apparatus of claim 1, wherein the movement of the first reflector is adapted to have a variable amplitude.

9. (Original) The apparatus of claim 1, wherein the movement of the first reflector is adapted to have a variable frequency.

10. (Original) The apparatus of claim 1, wherein the movement of the first reflector is adapted to have a variable frequency and a variable amplitude.

11. (Previously Presented) The apparatus of claim 1 wherein a distance between the first reflector and at least one of the fixed reflectors is adjustable.

12.-22. (Cancelled)

23. (Previously Presented) The apparatus of claim 11 wherein at least one reflector is slidable along a track.

24.-56. (Cancelled)

57. (Previously Presented) An apparatus for generating an angular sweep of a directed propagation of electromagnetic radiation, comprising:

a first reflector adapted to move over a first angular range of movement, wherein the first reflector is a planar mirror; and

a first and a second fixed reflector to reflect the directed propagation of electromagnetic radiation incident upon and reflected by the first reflector onto the fixed reflectors and back to the first reflector, wherein the first fixed mirror and the second fixed mirror are each a respective planar mirror;

the first fixed reflector is contiguous with the second fixed reflector and the first fixed reflector is angled with respect to the second fixed reflector;

wherein the first angular range of movement of the first reflector creates an increasing sweep of the directed propagation of electromagnetic radiation with each reflection from the first reflector.

58. (Previously Presented) The apparatus of claim 57 wherein the first mirror rotationally oscillates over the first angular range of movement and over a second angular range of movement, the second angular range of movement being directionally opposite the first angular range of movement.

59. (Previously Presented) The apparatus of claim 58, further comprising:  
a means for reciprocating the movement of the first mirror over the first and the second ranges of movement.

60. (Previously Presented) The apparatus of claim 57 wherein the movement of the first reflector is adapted to have a variable amplitude.

61. (Previously Presented) The apparatus of claim 57 wherein the movement of the first reflector is adapted to have a variable frequency.

62. (Previously Presented) The apparatus of claim 57 wherein a distance between the first reflector and at least one of the fixed reflectors is adjustable.

63. (Previously Presented) An apparatus for generating an angular sweep of a directed propagation of electromagnetic radiation, comprising:

a first reflector adapted to move over a first angular range of movement; and

a first and a second fixed reflector to reflect the directed propagation of electromagnetic radiation incident upon and reflected by the first reflector onto the fixed reflectors and back to the first reflector;

the first fixed reflector is contiguous with the second fixed reflector and the first fixed reflector is angled with respect to the second fixed reflector;

wherein the first angular range of movement of the first reflector creates an increasing sweep of the directed propagation of electromagnetic radiation with each reflection from the first reflector; and

wherein a distance between the first reflector and at least one of the fixed reflectors is adjustable..

64. (Previously Presented) The apparatus of claim 63 wherein the first reflector and the at least two fixed reflectors are mirrors.

65. (Previously Presented) The apparatus of claim 64 wherein the mirrors are planar.

66. (Previously Presented) The apparatus of claim 63 wherein the first reflector rotationally oscillates over the first angular range of movement and over a second angular range of movement, the second angular range of movement being directionally opposite the first angular range of movement.

67. (Previously Presented) The apparatus of claim 66, further comprising:

a means for reciprocating the movement of the first reflector over the first and the second ranges of movement.